

Список публикаций сотрудников кафедры в журналах, индексируемых в базах Web of Science и Scopus

1. Koshuro V., Fomina M., Fomin A., Rodionov I. Metal oxide (Ti,Ta)-(TiO₂,TaO) coatings produced on titanium using electrospark alloying and modified by induction heat treatment // Composite Structures, 2018, Vol. 196, pp. 1-7, <https://doi.org/10.1016/j.compstruct.2018.05.005>.
2. Koshuro V., Fomin A., Rodionov I. Composition, structure and mechanical properties of metal oxide coatings produced on titanium using plasma spraying and modified by micro-arc oxidation // Ceramics International, 2018, Vol. 44(11), pp. 12593-12599, <https://doi.org/10.1016/j.ceramint.2018.04.056>.
3. Oseev A., Mukhin N., Lucklum R., Zubtsov M., Schmidt M.-P., Steinmann U., Fomin A., Kozyrev A., Hirsch S. Study of liquid resonances in solid-liquid composite periodic structures (phononic crystals) – theoretical investigations and practical application for in-line analysis of conventional petroleum products // Sensors and Actuators B: Chemical, 2018, Vol. 257, pp. 469-477, <https://doi.org/10.1016/j.snb.2017.10.144>.
4. [Porous plasma sprayed coatings having improved adhesion strength](#) / A. V. Lyasnikova, V. N. Lyasnikov, O. A. Markelova, O. A. Dudareva, I. P. Grishina // Paper presented at the Conference Proceedings - 2016 International Conference on Actual Problems of Electron Devices Engineering, APEDE 2016, 2017. –P. 7879023.
5. [Features of formation of nano-structured plasma-sprayed titanium coating in the manufacture of electronics](#) / V. N. Lyasnikov, A. V. Lyasnikova, N. V. Protasova // Paper presented at the Conference Proceedings - 2016 International Conference on Actual Problems of Electron Devices Engineering, APEDE 2016, 2017. – P. 7879022.
6. [A new anti-emission material for manufacturing of cathode-mesh electrodes](#) / I.P. Melnikova, A.V. Lyasnikova, S.V. Maltseva // Letters on Materials, 2017. –Vol. 7(3). – P. 218-221.
7. [Composition and microstructure of zinc-substituted tricalcium phosphate and plasma biocoating based hereon](#) / A. V. Lyasnikova, O. A. Dudareva, V. N. Lyasnikov, O. A. Markelova, I. P. Grishina // Powder Metallurgy and Metal Ceramics, 2018. – Vol. 56(9-10). – P. 541-545.
8. [Investigation of the properties of biocomposite plasma coatings «titanium-magnesium-substituted calcium phosphates»](#) / Lyasnikova A.V., Dudareva O.A., Grishina I.P., Markelova O.A., Lyasnikov V.N. // Letters on Materials, 2018, Vol. 8. Iss. 2. P. 202-207.
9. [A Study of Plasma-Sprayed Nanocomposite Coatings Based on Magnesium-Substituted Tricalcium Phosphate](#) / Lyasnikova, A.V., Grishina, I.P., Dudareva, O.A., Markelova, O.A., Lyasnikov, V.N. // Protection of Metals and Physical Chemistry of Surfaces, 2018. Vol. 54. Iss. 3. P. 389-392.
10. [Comparative Analysis of Plasma Bioceramic Coatings Based on Zinc-Substituted Hydroxyapatite and Tricalcium Phosphate](#) / Lyasnikova, A.V., Dudareva, O.A., Lyasnikov, V.N., Markelova, O.A., Grishina, I.P. // Glass and

Ceramics, 2018. Vol. 75, Iss. 3-4. P. 163-167. [Properties of magnesium-substituted hydroxyapatite and the plasma coatings based on it](#) / A.V. Lyasnikova, S.Y. Pichhidze, O.A. Dudareva, O.A. Markelova // Technical Physics Letters, 2015. – Vol.60. Issue 11, pp 1725-1728.

11. [Study of Properties of Silver-Substituted Hydroxyapatite and Biocomposite Nanostructured Coatings Based on It](#)/ A. V. Lyasnikova , V. N. Lyasnikov, O. A. Markelova, O. A. Dudareva, S. J. Pichhidze, I. P. Grishina/ Biomedical Engineering. Vol. 49. No. 5, 2016, pp. 304-307.

12. [Biocomposite Plasma-Sprayed Coatings Based on Zinc-Substituted Hydroxyapatite: Structure, Properties, and Prospects of Application](#)/ A. V. Lyasnikova, O. A. Markelova, V. N. Lyasnikov, O. A. Dudareva/ Mechanics of Composite Materials, 2016, Vol. 51, Issue 6, pp 801-804.

13. [Plasma-sprayed nanostructured composite coatings based on copper-containing hydroxyapatite](#)/ A.V. Lyasnikova, O. A. Markelova, V. N. Lyasnikov, O. A. Dudareva, and I. P. Grishina // Mechanics of Composite Materials, Vol. 52, No. 1, March, 2016. – p.109-112.

14. Effect of Plasma Processes of Coating Formation on the Structure and Mechanical Properties of Titanium / V. A. Koshuro, G. G. Nechaev, A. V. Lyasnikova // Inorganic Materials: Applied Research, 2016. – Vol. 7. No. 3. – P. 350-353.

15. [Electroplasma Coatings Based on Silicon-Containing Hydroxyapatite: Technology and Properties](#) /A. V. Lyasnikova and O. A. Markelova // Technical Physics, 2016, Vol. 61, No. 9, pp. 1430-1432.

16. Lyasnikova, A.V. [Study of Structure of Bioceramic Coatings Obtained by Plasma Spraying of Hydroxyapatites of Synthetic and Biological Origins](#) / V.N. Lyasnikov, A.V. Lyasnikova, A.V. Pivovarov, I.N. Antonov, V.A. Papshev // Biomedical Engineering. - Vol. 45. - № 4 - Pp. 119-127.

17. Lyasnikova A.V. [Improvement of plasma coating used in medicine](#) / V.M. Taran, A.V. Lyasnikova, N.V. Protasova, O.A. Dudareva // Biomedical Engineering. - Vol. 46. - № 4.2012 - Pp. 134-137.

18. Lyasnikova A.V. [Mathematical Modeling of Stress in Plasma Coatings Used in Medicine](#) / A.V. Lyasnikova, V.M. Taran, O.A. Markelova, O.A. Dudareva, I.P. Grishina // Biomedical Engineering, Vol.47, No.3, September, 2013, pp.142-145.

19. Mel'nikova I.P., Lyasnikova A.V., Lyasnikov V.N. [Physical bases of formation of nanostructured biocompatible coatings on medical implants](#) // Russian Physics Journal, Vol. 56, No. 10, February, 2014. - p.1190-1197.

20. Koshuro V.A. [Composition and Structure of Coatings Formed on a VT16 Titanium Alloy by Electro-Plasma Spraying Combined with Microarc Oxidation](#) / Koshuro V.A., Nechaev G.G., Lyasnikova A.V. // Technical Physics, 2014, Vol. 59, No. 10, pp. 1570-1572.

21. [The Effect of Impregnation with Nanostructured Boehmite on the Structure and Properties of Plasma Sprayed Ceramic Coatings](#) / I.P. Mel'nikova, A.V. Lyasnikova, S.V. Veselukhina, V.S. Grinev, and E.L. Surmenko // Technical Physics Letters, 2014, Vol. 40, No. 10, pp. 845–848.